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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/016,273	12/11/2001	Todd P. Lukanc	039153-0450 (G1155)	3529
. 75	90 09/03/2003			
Paul S. Hunter FOLEY & LARDNER Firstar Center 777 East Wisconsin Avenue Milwaukee, WI 53202-5367			EXAMINER	
			ROSASCO, STEPHEN D	
			ART UNIT	PAPER NUMBER
			1756	

Please find below and/or attached an Office communication concerning this application or proceeding.

DATE MAILED: 09/03/2003

Application No. Applicant(s) LUKANC ET AL LUK							
Examiner Stephen Rosasco			Application No.	Applicant(s)			
Stephen Rosasco 1756			10/016,273	LUKANC ET AL.			
The MAILNG DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the proteins of 32 CFR 1.73(e). In no event, however, may a reply the timely filed If the period for reply specified above is less been thirty (30) days, a reply within the statisticary minimum of titing (30) days will be considered timely. If the period for reply specified above is less been thirty (30) days, a reply within the statisticary minimum of titing (30) days will be considered timely. If NO period for reply specified above is less been thirty (30) days, a reply within the statisticary minimum of thirty (30) days, and it is considered timely. If the period for reply specified above is less been thirty (30) days, a reply within the statisticary minimum of thirty (30) days will be considered timely. If the period for reply specified above is less been thirty (30) days, a reply within the statisticary minimum of thirty (30) days will be considered timely. If the period for reply specified above is less been thirty (30) days and the considered timely. If the period for reply specified above is less then they (30) days and the considered timely. If the period for reply specified above is less than they (30) days and the considered timely. If this action is FINAL. If the period for reply specified above is less than they (30) days and the considered timely. If this action is FINAL. If the period for reply specified and the consideration is non-final. If this action is FINAL. If the period for reply specified and the form the minimum of the form the reply specified and the consideration as to the merits is closed in accordance with the practice under Exp part Quayle, 1935 C.D. 11, 453 O.G. 213. It the period for the period for the printity documents for more consideration. If the period for the printity documents have been			Examiner	Art Unit			
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THE MAILING DATE OF THIS COMMUNICATION. Extensions of them may be available under the provisions of 3 CFR 1.13(e). In ne event, however, may a reply be timely filled offer SX (8) MONTHS from the mailing date of this communication. It NO service to reply within the state of the communication. It NO service to reply within the state or extended period for reply valled by the state of the communication. Failure to reply within the set or extended period for reply valled by the state of the communication. Failure to reply within the set or extended period for reply valled. Cause the application to become ABANDONED (38 U.S.C. § 133). Any reply received by the office clier than three meniods after the mailing date of this communication, even if timely filled, may reduce any search place to the communication in the set of extended period for reply valled by the state of the communication, even if timely filled, may reduce any search place to the communication of the set of the communication is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1:24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5b Claim(s) 1:24 is/are allowed. 6c Claim(s) 1:24 is/are allowed. 6c Claim(s) 1:24 is/are objected to. 8c) Claim(s) 1:24 is/are perjected. 7c) Claim(s) is/are objected to by the Examiner. 9c) The specification is objected to by the Examiner. 10c) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Application Papers 9c) The specification is objected to by the Examiner. 11d provoed, corrected drawings are required in reply to this Office action. 12d The proposed drawing correction filed on is/are: a) accepted or b) objected to by the Examiner. 12d The proposed drawing correction filed on is/are: a) accepted or b) objected to by the Examiner. 12d The proposed of the princity							
2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filled on is: a) approved by disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some of: None of: 1. Certified copies of the priority documents have been received in this National Stage application from the International Burseau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121. Attechmant(e)	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
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1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)							
	Attachment(s)						
2) ☐ Notice of Dransperson's Faterit Drawing Review (FTO-946) 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5. 6) ☐ Other:							

Application/Control Number: 10/016,273

Art Unit: 1756

Detailed Action

The disclosure is objected to because of the following informalities: pages 1 and 5, US Patent Serial numbers are missing. Figure 5 the 180 region is mislabeled "520" instead of – 510-.

Appropriate correction is required.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Liebmann et al. (6,057,063).

The claimed invention is directed to a method of designing a phase shifting mask and the mask to be used to manufacture an integrated circuit. The applicant states that the patterned poly lines that are away from the active regions are usually laid out with similar design rules as the of the patterned poly lines on active regions. And as such there can be many transitions between the phase shifted patterning and binary patterning. In the claimed invention a boundary region is added to the ends of phase (0) pattern defining polygons as well as to outside edges of phase 180 regions.

Liebmann et al. (see also Figs. 3-6) teach a process for creating a dark field alternating phase shift mask, comprising the steps of: identifying features in the mask that require phase shifting;

creating generic phase regions on opposite sides of the features that require phase shifting;

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assigning phases to said generic phase regions utilizing a net coloring approach and based upon minimum space between features;

ensuring proper phase termination of all phase regions; and

preparing designed datalevels for mask manufacturing by applying mask process specific overlaps and expansions.

Liebmann et al. also teach that generic phase regions may initially be formed by expanding, or projecting, edges of critical dimension features into polygons. This helps to ensure that every critical dimension feature has a phase region on either side of it. The "coloring", described below in greater detail, then creates the "phase transition" or phase change across the critical dimension features by assigning and creating regions of different phase on either side of the critical dimension feature.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Rosasco whose telephone number is (703) 308-4402.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0661. Fax (703) 872-9310 Before Finals; 872-9311 After Finals.

S. Rosasco Primary Examiner Art Unit 1756

S.Rosasco 8/28/03